

Fiscal Year 2020 Appendices

Missouri State Recycling Program

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Appendix A: FY20 Department Reports of Materials Recycled | Table A.1

FY20 Number of Pounds Recycled	Agriculture	Conservation	Corrections	Economic Development	Elementary & Secondary Educ.	Health & Senior Services	Higher Ed & Workforce Development	Commerce & Insurance	House of Representatives	Labor & Industrial Relations	Mental Health	Natural Resources	Office of State Courts Supreme Court	Office of Administration	Public Safety	Revenue	Secretary of State	Social Services	Transportation	State Treasurer	Totals by Material
Aluminum		402										6,752							109,920		117,074
Ballasts		525	1,815											957							3,297
Batteries (Single-Use & Rechargeable)	96	525	2,005	27		13				1,509	90	2,123	30	5,347	430				228		12,423
Cardboard ***	5,500	5,460	827,643								27,010	14,368		4,755	9,550	11,089			500		911,531
Carpet												1,750									125,896
Commingled Materials ***	C	C	C	C	C	C	C	C	C	C	C	115,936	C	C	C	C	C	C	C	C	459,621
											C										
Electronic Scrap ***	82	2	26,357	298	6,640	6,384		744	753		13,229	6,224	13,898	14,703	23,669	4,327	460	19,217	7,806		395,959
Food-Yard Waste												234,502									234,502
Glass		225										10,132									10,357
Magazines & Catalogs		40									481	919			40						1,480
Mixed Office Paper ***	C	28,130	23,566	10,692	800	9,220	41,696	5,924	C	C	3,100	17,258	C	C	80,448	516,122	429,839	C	2,500	3,300	2,984,413
		C	C	C	C	C	C	C			C	C		C	C	C	C				
Newsprint	1,027		3,213								993	871									6,104
Pallets			90,750								2,000	50		3,275	19,300				9,454		124,829
Pharmaceuticals											450										450
Plastic ***	3,200	609	1,530								281	12,356								20	19,046
Rubber, Tires		1,200										159,946			60,900				528,780		750,826
Scrap Metal	31,242	44,125	234,756									58,201		80,306	88,342	29,140			1,499,097		2,065,209
Telephone Books											250	396			20						666
Textiles												680									680
Tin / Steel Cans	C	15	490,792	C	C	C	C	C	C	C	91	12	C	C	C	C	C	C	C	C	490,910
Totals Reported by Agency	41,147	81,258	1,702,427	11,017	7,440	15,617	41,696	6,668	753	1,509	47,975	642,476	13,928	109,343	282,699	560,678	430,299	19,217	2,158,285	3,320	

Total Pounds Recycled in FY20: 8,715,273
4,358 Tons

Appendix A: FY20 Department Reports of Materials Recycled

Table A.1 | Note on Boxes with C's:

A "C" in a box on this table indicates an agency recycled the designated item by utilizing the Jefferson City (JC) or St. Louis recycling contracts (StL). Materials collected via the JC contract include **Mixed Office Paper and Commingled Materials (Cardboard, Aluminum, Plastic, and Steel (tin) Cans)**. A box that has a number over a "C" indicates the agency reported material that was recycled statewide, but not reported in the JC or StL contract figures. For example, Natural Resources reported 115,936 pounds of commingled recycled and Natural Resource offices in JC utilized the JC Recycling Services contract to recycle commingled material.

Table A.1 | ***Note on "Totals by Material"

This column includes collection totals as reported by the recycling contractor for the following materials: **Cardboard, Carpet, Commingled, Electronic Scrap, Mixed Paper, and Plastic Wrap**. Figures reported by the contractor do not appear in **Table A.1**; however, these figures are reflected in the "Totals by Material" column. Contractor figures are summarized in table A.2 (below).

Agencies that utilized a recycling contract, but do not appear in Table A.1 include: **Environmental Improvement Energy Resources Authority, Lottery, Tax Commission, MCHCP, MOSERS, Governor Office, Attorney General, Auditor, and Senate**. Amounts of materials recycled by these agencies are included in the "Totals by Material" column.

Contract Reporting & Table A.1

Total pounds recycled by agencies utilizing the Jefferson City, St. Louis, Kansas City, onsite document destruction, electronic scrap, and carpet contracts are provided in the table A.2 below. These figures are reported as cumulative totals. Due to contract reporting, data is reported by building and it is not feasible to separate data by agency where there are multiple agencies in the same building. All numbers in table A.2 are reflected in the "Totals by Material" column in table A.1.

Table A.2

FY20 Total Pounds Recycled via Contracts	Jefferson City	St. Louis	Kansas City	Onsite Document Destruction
Mixed Office Paper	935,129		5,814	874,175
Cardboard			5,656	
Commingled	296,860	46,825		
Plastic Wrap	1,050			
Statewide Collection Amounts				
Electronic Scrap	251,166			
Carpet	124,146			

Appendix A: FY20 Department Reports of Materials Recycled

Department Reporting	Number of Items Recycled			Number of Gallons Recycled						
	Cell Phones	Fluorescent + Incandescent Lamps	Printer Cartridges	Anti-freeze	Fuel, Diesel	Fuel, Gasoline	Fuel / Oil Filters	Oil, Cooking	Oil, Motor	Paint
Agriculture					228	1,384			85	
Conservation		6,961	45						201	
Corrections		3,918								
Mental Health			113					570		
Natural Resources		3,076	67	60	249		82	125	646	52
Office of Administration		9,644	38							
Public Safety			639					1,446		
Transportation		10		50					8,516	
Treasurer's Office			77							
TOTALS	430	23,609	2,941	110	477	1,384	82	2,141	9,448	52

Note on Cell Phones:

The total of 430 is a combined agency total. Even though no individual agency numbers are reported, for simplicity it is included in this table.

Note on Total Printer Cartridges:

962 printer cartridges were recycled by employees using a statewide service for this item and are included in the 'TOTALS' amount shown in this table. Note on Agency-Specific Printer Cartridges: Figures appearing for individual agencies may not be an accurate reflection of the number of printer cartridges recycled. In some buildings agencies utilize a centralized recycling drop-off for cartridges and it is not feasible to separate agency data once recycled.

Appendix B: FY20 Department Reports for Recycled Content Product Procurement

FY20 Non-Paper Recycled Content Procurement	Agriculture	Corrections	Elementary & Secondary Education	Higher Education & Workforce Development	Mental Health	Natural Resources	Office of Administration	Public Safety	Revenue	Treasurer's Office	Category Totals
Batteries, Rechargeable					\$445						\$445
Carpet / Construction Materials		\$9,580	\$93,469				\$16,566	\$37,542			\$490,706
Cardboard Boxes		\$31,527						\$1,976			\$132,294
Janitorial Supplies		\$321,026			\$5,283		\$1,212				\$536,127
Metal Products		\$18,959							\$7,204,250		\$7,448,334
Office Supplies	\$141			\$16,701	\$12,674	\$11,855				\$1,375	\$796,845
Park Playground Supplies											\$25,124
Printer Cartridges, Remanufactured	\$293	\$174,014			\$16,870						\$191,177
Promotional Products							\$140				\$140
Remanufactured Furniture											\$274,720
Vehicle Maintenance Supplies					\$260						\$260
Agency Totals	\$434	\$555,106	\$93,469	\$16,701	\$35,532	\$11,855	\$17,918	\$39,518	\$7,204,250	\$1,375	

Total Dollars Spent on Non-Paper Recycled-Content Products in FY20 = \$9,896,172

Procurement

When adding figures in each row the following needs to be considered. Carpet contractors reported agency purchases of **\$424,041**. Construction Materials contractors reported purchases of **\$57,085**. Office Supplies contractors reported purchases of **\$771,685**. MVE provided procurement figures for Cardboard Boxes (**\$132,294**); Janitorial Supplies-plastic bags (**\$530,844**); Metal Products (**\$244,084**); Park & Playground Supplies-Recycled plastic picnic tables and benches (**\$25,124**); and Remanufactured Furniture & Recycled Fabric (**\$274,720**). When adding the figures in each row - these amounts need to be included in the sum.

Note Regarding **Park & Playground Supplies** and **Remanufactured Furniture**: No individual agency data was reported for these products. For simplicity the totals are included in this table.

Appendix B: FY20 Purchases of Recycled Paper Compared to Virgin Paper

Product Category	Recycled Paper Purchases	Virgin Paper Purchases	Recycled Paper Purchases as a % of Total Purchases in Product Category		
	FY20	FY20	FY20	FY19	FY18
Fine Paper Products (office, copy, fax)	\$9,753	\$685,122	1%	13%	34%
Course Paper Products (napkins, towels, tissues)	\$1,062,116	\$14,430	99%	97%	100%
Forms (continuous & snap out)	\$0	\$40	0%	12%	100%
Envelopes (Plain or Printed)	\$198,432	\$87,150	69%	84%	93%
Printing by contractors (40% of total charge is attributable to paper - figures appearing in this row represent paper cost only)	\$160,887	\$271,321	37%	28%	26%
Overall Totals	\$1,431,188	\$1,058,063	57%	80%	68%

In FY20, 57 percent of agency paper purchases included recycled content. The state of Missouri spent \$1,062,116 on recycled toilet paper (Course Paper Products) in FY20 for approximately 33,988 cases of toilet paper made with 100% recycled content. Purchasing this type of recycled paper compared to purchasing the same amount of virgin paper translates into the following estimated benefits*:

- * 2,540 fewer tons of wood used or about 15,200 fewer trees
- * 7,100 million BTUs less energy – enough to power 68 homes in Missouri for a year
- * 10,000,000 less gallons of water used – about the same amount used by 7,200 clothes washers operated for a year
- * 8,480,000 pounds less CO₂ equivalent generated – 773 fewer cars on the road each year
- * 11,000 fewer pounds of solid waste – equivalent to 2,600 Americans generating no waste for one day

* Environmental impact estimates were made using the Environmental Paper Network Paper Calculator Version 4.0

Appendix B: FY20 Department Reports of Recycled and Virgin Paper Purchases

FY20 Department Detail of Recycled & Virgin Paper Purchases	Fine Paper Products (printer / copier paper)	Course Paper Products (toilet paper / paper towels)	Forms - Continuous & Snap Out (high speed printers)	Envelopes	Printing by Contractors
Judiciary (100)	-	-	-	-	-
	-	-	-	-	-
SOS (231)	-	-	-	-	-
	-	-	-	-	-
Auditor (251)	-	-	-	-	-
	-	-	-	-	-
STO (272)	\$16,318	\$316	-	-	-
	\$607	\$87	-	\$14,520	-
AGO (282)	-	-	-	-	-
	-	-	-	-	-
OA (300)	\$71,151	-	-	-	-
	-	-	-	-	\$245
MDA (350)	\$2,733	\$14,114	-	\$941	\$63,302
	\$56	-	-	-	-
DIFP (375)	-	-	-	-	-
	-	-	-	-	-
MDC (400)	-	-	-	-	-
	-	-	-	-	-
DED (419)	-	-	-	-	-
	-	-	-	-	-
DESE (500)	-	-	-	-	-
	-	-	-	-	-
DHEWD (555)	-	-	-	-	\$35,221
	-	-	-	-	-
DHSS (580)	-	-	-	-	-
	-	-	-	-	-
MoDOT (605)	-	-	-	-	-
	-	-	-	-	-
DOLIR (625)	-	-	-	-	-
	-	-	-	-	-
DMH (650)	\$6,873	-	-	-	\$623
	-	-	-	-	-
DNR (780)	\$90	-	-	-	-
	\$9,090	\$251	-	-	\$3,264
DPS (812)	-	-	-	-	-
	-	-	-	-	\$68,730
DOR (860)	-	-	-	-	-
	-	-	-	-	-
DSS (886)	-	-	-	-	-
	-	-	-	-	-
DOC (931)	\$13,190	-	\$40	-	\$10,184
	-	\$912,501	-	-	-
Totals	\$685,122	\$14,430	\$40	\$87,150	\$271,320.52
Totals	\$9,753	\$1,062,116	\$0	\$198,432	\$160,887.03

GRAY HIGHLIGHT = VIRGIN

GREEN HIGHLIGHT = RECYCLED